Thursday May 9th 2013 - Room 30BB03

Dr Chris Jeynes (University of Surrey) **09.00 - 09.10** Arrival and Welcome: **09.10 - 10.20** What is the R-matrix? Prof. Jeff Tostevin (University of Surrey)

10.20 - 11.00 Coffee break

11.00 - 12.00 Leverhulme Lecture:

Part I: Nuclear data for Ion Beam Analysis (IBA) Part II: Evaluation of charged particles low energy reaction cross-sections

Prof. Alexander Gurbich (Surrey/Obninsk)

12.00 - 13.00 Astrophysics needs and tools: Overview of AZURE

Dr Ed Simpson (University of Surrey)

13.00 - 14.00 Lunch/discussions

14.00 - 18.00 Hands-on session Computer Laboratory (10BC03)

Friday May 10th 2013 - Room 30BB03

09.00 - 09.30 Nuclear reaction cross-section measurement capability in the UK: The Surrey Facility Dr Julien Colaux (University of Surrey)

09.30 - 10.30 *Leverhulme Lecture:*

Similarities between nuclear data for IBA and Astrophysics Prof. Alexander Gurbich (Surrey/Obninsk)

10.30 - 11.30 Tour of the Surrey Ion Beam Centre and Coffee Break

11.30 - 13.00 Topical applications

11.30 - 12.00 The Application of R-Matrix analysis to experimental data: 1 - Resonance Properties

Alex Murphy (University of Edinburgh)

12.00 - 12.30 The Application of R-Matrix analysis to experimental data:

2 - Reaction Rates

Alison Laird (University of York)

12.30 - 13.00 Evaluation of non-Rutherford α-elastic scattering from Si Chris Jeynes / Alex Gurbich

13.00 - 14.00 Lunch/discussion

14.00 - 16.00 Hands-on session (optional) Computer Laboratory (10BC03)

16.00 Formal close

(computing lab remains open with Surrey staff - refreshments and depart)